

**CORRECTION OF ALIGNMENT AND LINEARITY ERRORS  
IN A STYLUS INPUT SYSTEM**

**ABSTRACT OF THE INVENTION**

A method and system for correcting alignment and linearity errors in devices using a finger or stylus input device with a display device interactively coupled to a digitizer is disclosed. Touching intersections in a calibration grid on the display device may be performed to create a linearity map. Subsequently, detected stylus input is mapped to a sector in the linearity map, and resultant screen coordinates are calculated using ratios within a reference rectangle corresponding to the detected stylus input and the mapped sector.